FGB INGRESS

TOOLS AND EQUIPMENT REQUIRED:

Flashlight

APAS Hatch Tool

"Return to Houston" Bag Air Sample Bottle (one)

Ratchet Wrench

8mm Deepwell Socket

Wire Cutters Duct Tape

Trash Bag

CRT

SPEC 66 ENVIRONMENT

1. When CABIN dP/dT < 0.01 (~15 minutes)

EPCS

FGB: ECLSS

√FGB Nod1 PEV - Op

2. INGRESS PA

FGB

Per MCC-H, open FGB PA APAS Hatch

APAS Hatch 1. Select 'ĐÀÁÎ \times ÅÅ' (WORKING) torque setting on hatch tool.

- 2. Insert tool in hatch socket.
- 3. Rotate 3 to 3.5 turns in direction of 'Î ÒÊĐ' (Open) arrow until it clicks.

- If tool prematurely slips or does not engage
- * Select 'ÀÂÀĐÉÉÍ Î Å' (EMERGENCY) setting *
- * on hatch tool.

* Reattempt to open Hatch.

- 4. Verify all latches are opened.
- 5. Remove tool.
- 6. Open Hatch.
- 7. Tether Tool on hatch handle.
- 8. Secure Hatch in open position using fixing device.
- 9. Inform **MCC-H** of PA Hatch opening complete.

PA 4th 3. PA AND ICC LIGHTING ACTIVATION

Plane

- 1. 1,2,3,4-E1 (switch) \rightarrow On (switch up)
- 2. √LEDs Ä1,2,3,4 (four) ■ (off)

NOTE

Light switch 5-Ë1 is non-functional.

PA 2nd Plane

4. READY OCÏ -4 FIRE EXTINGUISHER IN PA

 Remove blue launch restraint bolts (four) from clamps (two) with Ratchet and Socket (8mm Deepwell Socket).
 Stow clamps and bolts in "Return to Houston" Bag.

- 5. <u>ÈÏ K-1 GAS MASK</u> READINESS
 - 1. Cut lock wire from cap and dispose in Trash Bag.

PA 6. INGRESS ICC

- On MCC-H GO, open FGB PA-ICC Hatch Rotate hatch handle in direction of OPEN (OTÊPÜITO) position. Open Hatch until Hatch clicks and stops.
- 2. Inform **MCC-H**, PA-ICC Hatch is opened.

7. TAKE AIR SAMPLES OF FGB

Collect air sample (one) inside the FGB ICC.
 Stow Air Sample Bottle (one) in "Return to Houston" Bag.

ICC Port 8. ICC LIGHTING ACTIVATION

Panel 414 Ù Î -ËÎ 1. 1-Ë1 (switch) → On (switch up) √LEDs Ä1,2,3,4 (four) - ■ (off)

Panel 430

2. 1-Ë1 (switch) → On (switch up) √LEDs Ä1,2,3,4 (four) - ■ (off)

NOTE

Light switch 5-Ë1 is non-functional on panels 430 and 414.

9. PA-ICC HATCH BULKHEAD RING INSTALLATION

Panel 402

 Remove protective ring by unsecuring two restraint clips from launch restraint brackets using TBD wrench and unloosen two restraint straps.

NOTE

If time available, remove four launch restraint bolts from each of the two launch restraint brackets with Ratchet and Socket. Dispose of blue launch restraint bolts brackets in "Return to Houston" Bag.

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PA-ICC Hatch

- 2. Unfold protective ring and connect protective ring brackets on hatch hinge pin. Verify bracket mechanisms locked to hinge pin.
- Secure bottom portion of protective ring alignment pin on socket of handle mechanism assembly. Rotate hatch handle in direction of close (ÇAÊPÜITO) position.

10. ALARM CONTROL PANEL ACTIVATION

ICC Panel 429

- 1. POWER \rightarrow On $\sqrt{\text{LED F1}} \blacksquare$ (off)
- 2. TEST pb Push and Hold

√TTS/LOCAL - LOCAL

- √Light CL ■ (blinking) √All other lights and LEDs - □ (on)
- √Siren activated □
- 3. TEST pb Release
 √LED F1 ■ (off)
 √All other lights and LEDs ■ (off)
 √Siren off

11. INSTALL AIR DUCTING

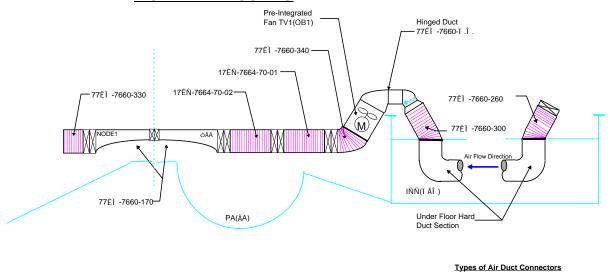


Figure 1.- Air duct connections.

РΑ

1. Deploy duct rotator device.

ICCI Panel 102 2. Remove launch restraint tape from flexible duct (77KM-7660-300) and unfold.

Quick Disconnect
Cord/Strap
Velcro

PA 3. Secure free-end of Flexible Air Duct (77KM-7660-300) using Velcro on end of duct rotator device. ICC 4. Open TBD container (77KM-7660-280). Behind Retrieve flexible duct (77KM-7660-340). Panel 202 PA 5. Using strap, connect Flexible Air Duct (77KM-7660-340) to flange of the TV1(ÖB1) fan. 6. Unstow Flexible Air Duct (77KC-7664-70-01). Panel 202 PA 7. Connect Flexible Air Duct (77KC-7664-70-01) and connect with Flexible Air Duct (77KM-7660-340). Panel 202 8. Unstow Flexible Air Duct (77KC-7664-70-02). PΑ 9. Connect Flexible Air Duct (77KC-7664-70-02) and connect with Flexible Air Duct (77KC-7660-70-01). ICC 10. Remove FGB Rigid Air Duct (77KM-7660-170) by unsecuring restraint Panel 204 clamps (two) using TBD tool. Tmpry stow bolts. **ICC** 11. Remove Node 1 Rigid Air Duct (77KM-7660-170) by unsecuring Panel 204 restraint clamps (two) using TBD tool. Tmpry stow bolts. PMA1-12. Connect FGB Rigid Air Duct and Node 1 Rigid Air Duct. PA Hatch PΑ 13. Connect free-end of Flexible Air Duct (17KC-7664-70-02) to FGB Rigid Air Duct. ICC 14. Retrieve Flexible Air Duct (77KM-7660-330). Behind Panel 202 PMA1 15. Connect free-end of Flexible Air Duct (17KM-7660-330) to Node 1 Rigid Air Duct. 16. Detach cap to PMA 1 hard duct inlet. Stow cap.

1-103

with flat band coupling.

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17. Connect free-end of Flexible Air Duct to PMA 1 duct inlet and secure

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Panel 12. READY OCÏ -4 FIRE EXTINGUISHER IN ICC

229

 Remove blue launch restraint bolts (four) from clamps (two) with Ratchet and Socket (8mm Deepwell).
 Stow clamps and bolts in "Return to Houston" Bag.

Panel 13. <u>ÈÏ K-1 GAS MASK READINESS IN ICC</u>

230

1. Remove lock wire from cap and dispose in Trash Bag.

14. ACTIVATE NODE 1 - FGB INTERMODULE VENTILATION

EPCS

Node 1: ECLSS NODE 1: ECLSS

sel Node_1_Aft_Port_IMV_Fan

√Close Cmd - Ena sel RPC Commands cmd Close Execute √Position - Close

NODE 1: Aft Port IMV Fan

sel Fan Commands cmd On Execute √Stat - In Trans

NODE 1: Aft Port IMV Fan

Wait 15 seconds.

√Stat - On

√Spd, rpm: 7462 --- 9500

15. VERIFY FGB BOOSTER FAN OPERATIONS

EPCS

PMA 1

FGB: ECLSS

1. $\sqrt{\text{TsV}}$ 1, Volts = TBD ± TBD

16. FGB VENTILATION SCREEN CLEANING

FWD ICC

1. Clean ventilation screens (three) using Duct Tape.

Panels 201, 301, 401 Compartment

2. Dispose of Tape in Trash Bag and transfer to shuttle trash.

2. Close grille cover on PMA 1 hard duct using Velcro tabs (three).

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